

WHAT IS CLAIMED IS:

1. A printing control method of converting original data into print data processible by a printing apparatus, comprising:

5 a setting step of setting a basic setting applied to the whole print data in generating the print data, a double-sided printing setting, and a back-side setting applied to a page corresponding to a back side of a sheet serving as a printing medium in the double-sided
10 printing setting; and

a conversion step of converting the data into the print data in accordance with the basic setting and the back-side setting set in the setting step.

2. The method according to claim 1, wherein in the
15 conversion step, the basic setting is applied for an item other than an item having the back-side setting.

3. The method according to claim 1, wherein in the conversion step, the back-side setting is applied to, as a unit, one side of the sheet serving as a printing
20 medium.

4. The method according to claim 1, wherein in the conversion step, metadata generated by an operating system is converted into the print data in accordance with the basic setting and the back-side setting while
25 the back-side setting is preferentially applied.

5. The method according to claim 1, wherein in the conversion step, while the basic setting and the

back-side setting are referred to, various parameters necessary to convert a page corresponding to a front side of a sheet and various parameters necessary to convert a page corresponding to a back side are loaded in advance, and the parameters are alternately referred to in converting the pages.

6. The method according to claim 1, wherein in the conversion step, every time a page of interest is to be converted, various parameters for use are loaded and referred to by referring to the basic setting and the back-side setting.

7. The method according to claim 1, wherein the setting step comprises a sheet selection step of selecting a type of sheet serving as a printing medium, and types of sheets in the basic setting and the back-side setting are changed in accordance with the type of sheet selected in the sheet selection step.

8. The method according to claim 1, further comprising a step of, upon reception of a printing setting value request from an application which generates the original data, sending back a printing setting value for generating original data convertible into print data corresponding to the basic setting and the back-side setting in the conversion step.

9. The method according to claim 8, wherein in the setting step, the type of sheet subjected to printing can be selected, border-free printing setting can be

selected for each of the basic setting and the
back-side setting in accordance with the selected type
of sheet, and when a type of sheet capable of
border-free printing is set, a printable region of
5 border-free printing is sent back to the application.

10. The method according to claim 8, wherein in the
setting step, color printing or monochrome printing can
be selected for each of the basic setting and the
back-side setting, and color printing setting is sent
10 back to the application.

11. The method according to claim 8, wherein in the
conversion step, when the double-sided printing setting
is done in the setting step, original data of one page
received from the application for one plane is
15 converted into print data and output for all sheets
subjected to printing, and original data of each page
received from the application for the other plane is
converted into print data for the received page.

12. The method according to claim 8, wherein in the
20 setting step, the basic setting and the back-side
setting are changed in accordance with a printing
setting designated in the application.

13. A printing control method of converting input
drawing data into print data printable by a printing
25 apparatus and transferring the print data to the
printing apparatus, comprising:

a step of determining a basic setting serving as

a printing setting applied to the whole drawing data;

a step of recording in a setting table the basic setting determined in the basic setting determination step;

5 a step of, when the drawing data is to be printed on two sides of each of sheets for a plurality of pages, determining a back-side setting applied to only pages corresponding to back sides of the sheets;

a step of recording in the setting table the
10 back-side setting determined in the step of determining the back-side setting; and

a generation step of determining a setting used for each page of interest from the setting table and generating print data on the basis of the determined
15 setting.

14. The method according to claim 13, wherein the generation step comprises

a step of loading a first page of the drawing data from metadata generated by an operating system,

20 a step of converting data of the first page into print data in accordance with the basic setting and the back-side setting while preferentially applying the back-side setting,

a step of storing the print data of the first
25 page,

a step of loading data of each of second and subsequent pages in the drawing data from the metadata,

a step of converting the data of each of the second and subsequent pages into print data in accordance with the back-side setting,

a step of outputting the print data of the second and subsequent pages to a printer, and

a step of outputting the print data of the first page to the printer after outputting the print data of the second and subsequent pages.

15. A printing control apparatus which converts original data into print data processible by a printing apparatus, comprising:

setting means for setting a basic setting applied to the whole print data in generating the print data, a double-sided printing setting, and a back-side setting applied to a page corresponding to a back side of a sheet serving as a printing medium in the double-sided printing setting; and

conversion means for converting the data into the print data in accordance with the basic setting and the back-side setting set by said setting means.

16. A printing control apparatus which converts input drawing data into print data printable by a printing apparatus and transferring the print data to the printing apparatus, comprising:

means for determining a basic setting serving as a printing setting applied to the whole drawing data;

means for recording in a setting table the basic

setting determined by said basic setting determination means;

means for, when the drawing data is to be printed on two sides of each of sheets for a plurality of pages, determining a back-side setting applied to only
5 pages corresponding to back sides of the sheets;

means for recording in the setting table the back-side setting determined by said means for determining the back-side setting; and

10 generation means for determining a setting used for each page of interest from the setting table and generating print data on the basis of the determined setting.

17. A computer program product which records a
15 program for converting original data into print data processible by a printing apparatus, wherein the program includes

a code for a setting step of setting a basic setting applied to the whole print data in generating
20 the print data, a double-sided printing setting, and a back-side setting applied to a page corresponding to a back side of a sheet serving as a printing medium in the double-sided printing setting; and

a code for a conversion step of converting the
25 data into the print data in accordance with the basic setting and the back-side setting set in the setting step.

18. A computer program product which records a
program for converting input drawing data into print
data printable by a printing apparatus and transferring
the print data to the printing apparatus, wherein the
5 program includes

a code for a step of determining a basic setting
serving as a printing setting applied to the whole
drawing data;

a code for a step of recording in a setting table
10 the basic setting determined in the basic setting
determination step;

a code for a step of, when the drawing data is to
be printed on two sides of each of sheets for a
plurality of pages, determining a back-side setting
15 applied to only pages corresponding to back sides of
the sheets;

a code for a step of recording in the setting
table the back-side setting determined in the step of
determining the back-side setting; and

20 a code for a generation step of determining a
setting used for each page of interest from the setting
table and generating print data on the basis of the
determined setting.